

What We Claim Is:

1. A turntable comprising:

a turntable structure for receiving a disk, a rotary shaft rotatable about a rotary axis for rotating said turntable structure,

a centering member movable in the rotary shaft direction for positioning the disk with respect to the rotary shaft; and

a guide portion on said turntable structure formed concentrically with respect to the rotary shaft, said guide portion being pushed and elastically deformed by the centering member during disk rotation and serves for guiding the centering member in the axial direction.

2. The turntable according to claim 1, wherein the rigidity of said guide portion is less than the rigidity of said centering member allowing for elastic deformation of said guide portion.

3. The turntable according to claim 2, wherein said guide portion has a thin part such that the rigidity of said thin part is reduced with respect to that of said centering member.

4. The turntable according to claim 1, wherein the material of said guide portion is softer than the material of said centering member thereby allowing for elastic deformation of said guide portion.

5. The turntable according to claim 4, wherein said guide portion is formed from a resin and said centering member is formed from a metal.

6. The turntable according to claim 4, wherein said centering member is formed of a polycarbonate and said guide portion is formed of a material softer than said polycarbonate.

7. The turntable according to claim 4, wherein said centering member is formed of a resin harder than polycarbonate and said guide portion is formed of a material softer than said polycarbonate.

8. The turntable according to claim 1, wherein a gap is provided inside said guide portion.

9. A turntable comprising:

a turntable structure for receiving a disk, a shaft rotatable about a rotary axis for rotating said turntable structure, said turntable structure having a guide portion;

a centering member disposed about said guide portion and rotatable in the rotary shaft direction for positioning the disk with respect to the rotary shaft;

said guide portion being concentric with said shaft and being elastically deformable by said centering member during rotation of the disk on the turntable structure and serves to guide said centering member in an axial direction.

10. A turntable according to claim 9, wherein the rigidity of said guide portion is less than the rigidity of said centering member to provide for elastic deformation of said guide portion.

11. A turntable according to claim 9, wherein said guide portion has first and second parts, said first part being thinner than said second part.

12. A turntable according to claim 11, wherein said guide portion has a terminating end, said thinner first part of said guide portion being juxtaposed to said terminating end.

13. A turntable according to claim 9, wherein the centering member is made of a material which is harder than the material from which said guide portion is made.

14. A turntable according to claim 9, wherein a space is provided radially inwardly of said guide portion.

15. A turntable according to claim 14, wherein the elastically deformed guide portion extends into said space.

16. A turntable according to claim 9, wherein said guide portion has an outer part having a surface which is non-parallel with said rotary axis.

17. A turntable comprising:

a turntable structure for receiving a disk, a shaft rotatable about a rotary axis for rotating said turntable structure, said turntable structure having a guide portion;

a centering member juxtaposed to said guide portion for positioning the disk with respect to the rotary shaft;

said guide portion being concentric with said shaft and being elastically deformable by said centering member during rotation of the disk on the turntable structure.